

NAME:

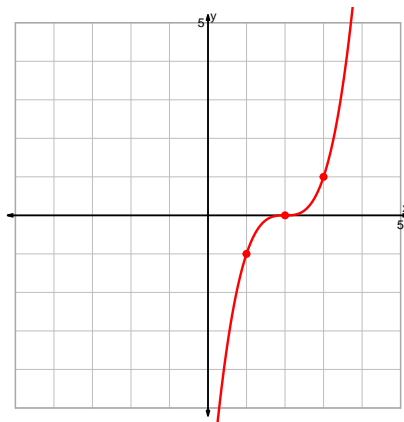
DATE:

## Unit-2 Reduced Mastery Assessment (version 309)

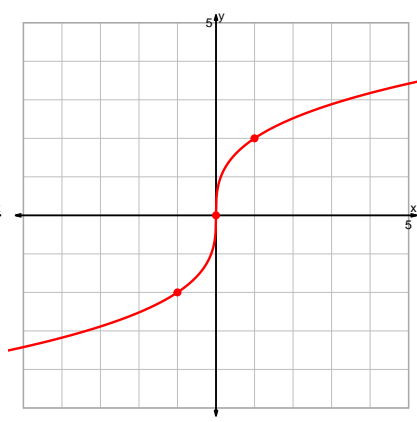
### Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

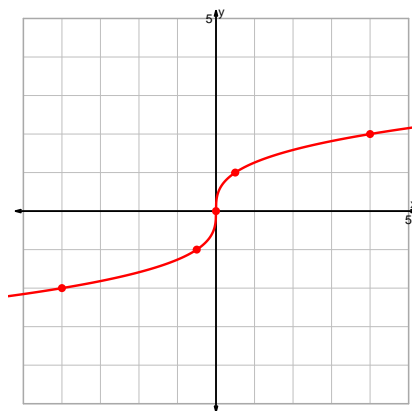
$$y = (x - 2)^3$$



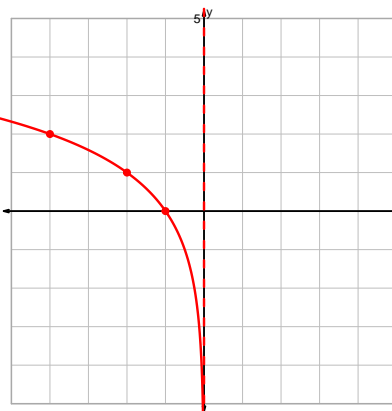
$$y = 2 \cdot \sqrt[3]{x}$$



$$y = \sqrt[3]{2x}$$

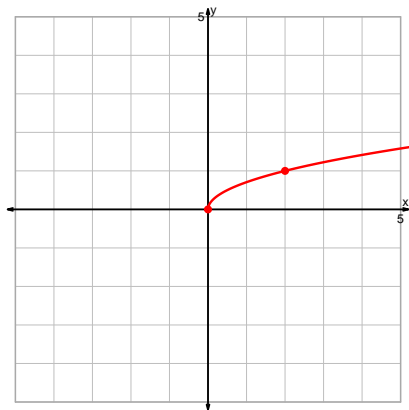


$$y = \log_2(-x)$$

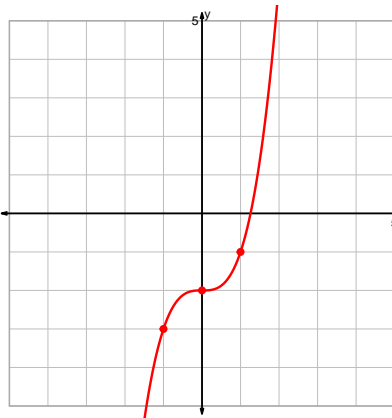


Question 2 continued...

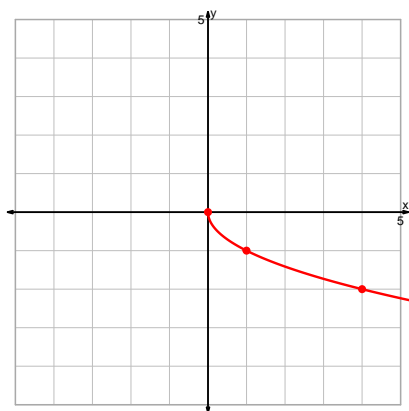
$$y = \sqrt{\frac{x}{2}}$$



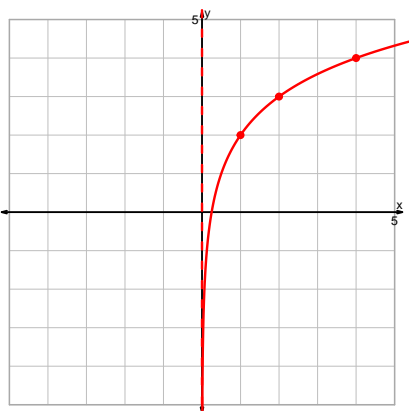
$$y = x^3 - 2$$



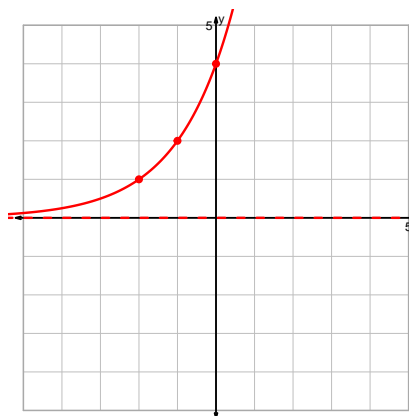
$$y = -\sqrt{x}$$



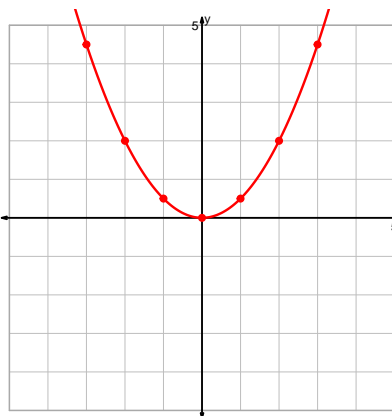
$$y = \log_2(x) + 2$$



$$y = 2^{x+2}$$

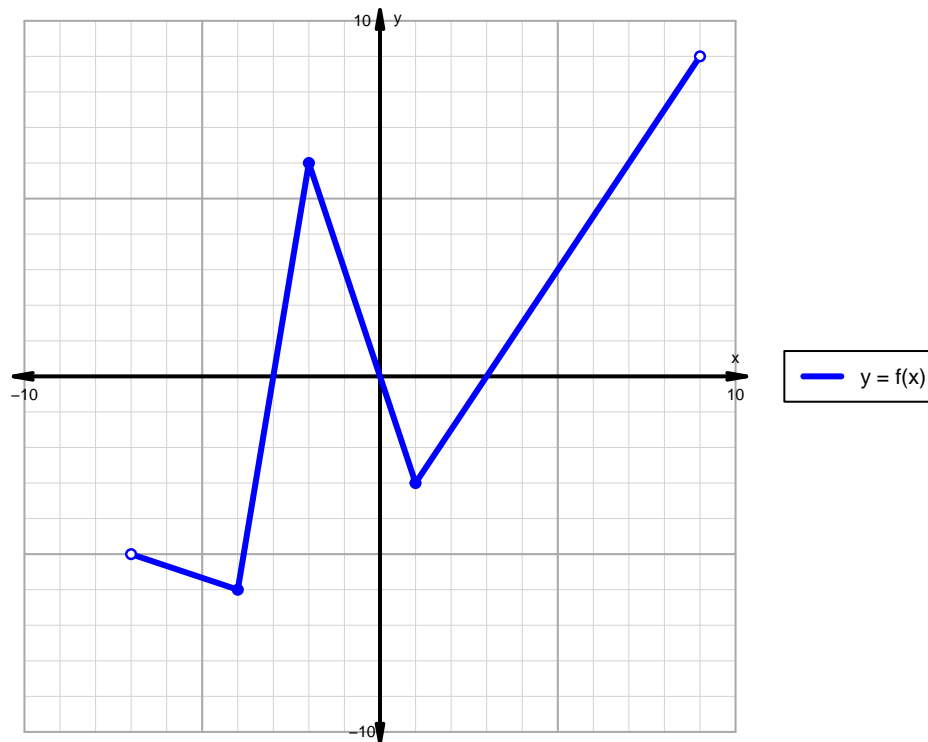


$$y = \frac{x^2}{2}$$



## Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-3, 0) \cup (3, 9)$
Negative	$(-7, -3) \cup (0, 3)$
Increasing	$(-4, -2) \cup (1, 9)$
Decreasing	$(-7, -4) \cup (-2, 1)$
Domain	$(-7, 9)$
Range	$(-6, 9)$